Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office	Atty. Docket No. 070050.2891	Serial No. 10/789,308	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant Jessell et al.		
(Use several sheets if necessary)	Filing Date February 26, 2004	Group 1647	
DEC 13 2006 H	Examiner Gamett, Daniel C.	·	
TENTA HARDEN			

'Exam. Initial.	. No.	Document No.	Date	Name	Class	Subclass	Filing Date if Approximate.
/DG/		7,115,653	October 3, 2006	Baxter et al.			
		20050203014	September 15, 2005	Rubin			
		20050080138	April 14, 2005	Guicherit et al.			
		2005001980	January 27, 2005	Rubin et al.			
		20050014796	January 20, 2005	Baxter et al.			
		20050266555	December 1, 2005	Lu et al.			
		20040023949	February 5, 2004	Baxter et al.	- 		
		6,683,108	January 27, 2004	Baxter et al.			
\top		6,683,192	January 27, 2004	Baxter et al.			
		6,552,016	September 2, 2003	Baxter et al.			
7		6,613,798	September 2, 2003	Porter et al.			
V _					-	1	

NY02:567908.1	/Daniel Gamett/ (05/08/2007)	
Examiner	Date Considered	

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

office the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

SINGLE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Complete if Known

Application Number

10/789,308

Filling Date

02/26/04

Thomas M. Jessell

(Use as many sheets as necessary)

25

STATE THANK

Sheet

Filing Date 02/26/04

First Named Inventor Thomas M. Jessell

Art Unit 1636

Examiner Name to be assigned

Attorney Docket Number 5199-152

	•	NON PATENT LITERATURE DOCUMENTS	,
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/DG/ Abbondanzo et al., Derivation of embryonic stem cell lir		Abbondanzo et al., Derivation of embryonic stem cell lines.	
		Methods Enzymol., 225: 803-823, 1993	
		Akhurst and Derynck, TGF-beta signaling in cancer-a double-edged sword.	
Trends Cell Biol., 11(11): S44-51, 2001		Trends Cell Biol., 11(11): S44-51, 2001	
Alvarez-Buylla et cells.		Alvarez-Buylla et al., A unified hypothesis on the lineage of neural stem cells.	
Nat. Rev. Neurosci., 2: 2		Nat. Rev. Neurosci., 2: 287-293, 2001	
		Arber et al., Requirement for the homeobox gene Hb9 in the consolidation of motor neuron identity.	
Neuron, 23: 659-764, 1999		Neuron, 23: 659-764, 1999	
		Bain et al., Embryonic stem cells express neuronal properties in vitro.	
$\sqrt{}$		Dev. Biol., 168: 342-357, 1995	

Examiner /Daniel Gamett/ (05/08/2007) Date Considered				
Signature /Daniel Gamety (05/06/2007) Considered	Examiner	(Daniel Camett/ (05/09/2007)	Date	
Olgitatore	Signature	/Daniel Gameti/ (05/06/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
b a collection of information unless it contains a valid OMB control number.

Substitu	te for form 1449/PTO			Complete if Known		
30031110				Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT B	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many she	ate se s	acossan)	Art Unit	1636	
	(030 a3 man) 5110015 a2 11203321,7			Examiner Name	to be assigned	
Sheet	2	of	25	Attorney Docket Number	5199-152	

			NON PATENT LITERATURE DOCUMENTS		
Exami Initials	xaminer Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
/D0	Bak et al., The Hedgehog signaling pathway – implications for drug targets in cancer and neurodegenerative disorders.				
			Pharmacogenomics, 4(4): 411-429, 2003		
			Beers and Berkow, eds., The Merck Manual of Diagnosis and Therapy, 17th ed. Whitehouse Station, NJ: Merck Research Laboratories, 1999, chap. 183		
	Belting et al., Multiple phases of expression and regulation of mouse Hoxc8 during early embryogenesis.				
•	J. Exp. Zool., 282: 196-222, 1998		J. Exp. Zool., 282: 196-222, 1998		
mutant form o			Bieri et al., Abnormal nerve conduction studies in mice expressing a mutant form of the POU transcription factor, SCIP.		
			J. Neurosci. Res., 50:821-828, 1997		
			Bloch-Gallego et al., Survival in vitro of motoneurons identified or purified by novel antibody-based methods is selectively enhanced by		
			muscle-derived factors.		
	/		Development, 111: 221-232, 1991		

Examiner		Date	
Signature	/Daniel Gamett/ (05/08/2007)) Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	ite for form 1449/PTO				Complete if Known
3005010	10 10 10 11 14431 10			Application Number	10/789,308
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04
STA	ATEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell
	01	-4		Art Unit	1636
(Use as many sheets as necessary)		Examiner Name	to be assigned		
Sheet	3	of	25	Attorney Docket Number	5199-152

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials* Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²	
/DG/		Blumberg et al., An essential role for retinoid signaling in anteroposterior neural patterning.	
		Development, 124: 373-379, 1997	
		Botchkarev, V.A., Bone morphogenetic proteins and their antagonists in skin and hair follicle biology.	
		Journal of Investigative Dermatology, 120: 36-47, 2003	
		Brazelton et al., From marrow to brain: expression of neuronal phenotypes in adult mice.	
		Science, 290: 1775-1779, 2000	
		Briscoe and Ericson, Specification of neuronal fates in the ventral neural tube.	
		Curr. Opin. Neurobiol., 11: 43-49, 2001	
		Briscoe et al., A homeodomain protein code specifies progenitor cell identity and neuronal fate in the ventral neural tube.	
$\overline{}$,	Cell, 101: 435-445, 2000	

١	Examiner	/Daniel Gamett/ (05/08/2007)	Date	
1	Signature	Thamer Carrott (00/00/2007)	Considered	·

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant:

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2005. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
b a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known		
7 Substitute for form 1440s. 10	Application Number	10/789,308		
INFORMATION DISCLOSURE	Filing Date	02/26/04		
STATEMENT BY APPLICANT	First Named Inventor	Thomas M. Jessell		
(Use as many sheets as necessary)	Art Unit	1636		
(USO 45 Many Sheets as necessary)	Examiner Name	to be assigned		
Sheet 4 of 25	Attorney Docket Number	5199-152		

			NON PATENT LITERATURE DOCUMENTS	
Examiner Initials* No.1		Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
			Byrd et al., Hedgehog is required for murine yolk sac angiogenesis.	
			Development, 129: 361-372, 2002	
			Cadigan and Nusse, Wnt signaling: a common theme in animal development.	
			Genes Dev., 11(24): 3286-3305, 1997	·
			Camu et al., Purification of embryonic rat motoneurons by panning on a monoclonal antibody to the low-affinity NGF receptor.	
			J. Neurosci. Methods, 44: 59-70, 1992	
			Chambon, P., The molecular and genetic dissection of the retinoid signaling pathway.	·
			Recent Prog. Horm. Res., 50: 317-332, 1995	
-			Chambon, P., The retinoid signaling pathway: molecular and genetic analysis.	
,	$\sqrt{}$		Semin. Cell Biol., 5(2): 115-125, 1994	

Examiner /Daniel Gamett/ (05/08/2007) Date Consider	ed
---	----

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE respond to a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTO			Complete if Known		
Substitu	te for form 1448/F10			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	///			Art Unit	1636	
	(Use as many she	ets as n	ecessary)	Examiner Name	to be assigned	
Sheet	5	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issu number(s), publisher, city and/or country where published.				
/DG/		Chiang et al., Cyclopia and defective axial patterning in mice lacking Sonic hedgehog gene function.			
		Nature, 383: 407-413, 1996			
		Chiba et al., Distinct retinoid X receptor – retinoic acid receptor heterodimers are differentially involved in the control of expression of			
		of retinoid target genes in F9 embryonal carcinoma cells.			
		Mol. Cell Biol., 17: 3013-3020, 1997			
		Choi et al., A generic intron increases gene expression in transgenic mice.			
-		Mol. Cell Biol., 11: 3070-3074, 1991			
		Cross and Claesson-Welsh, FGF and VEGF function in angiogenesis: signaling pathways, biological responses and therapeutic inhibition.			
		Trends Pharmacol. Sci., 22(4): 201-207, 2001			
\forall					

Examiner	/D	Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

	te for form 1449/PTO			Complete if Known		
, Substitu	10/10/11/14/5// 10			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	<i>(</i> ()			Art Unit .	1636	
	(Use as many she	ets as r	iecessar y)	Examiner Name	to be assigned	
Sheet	6	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*						
/DG/						
	Growth Factors, 20(1): 1-15, 2002		·			
		Davis and Joyner, Expression patterns of the homeobox-containing genes En-1 and En-2 and the proto-oncogene int-1 diverge during				
		mouse development.				
		Genes Dev., 2: 1736-1744, 1988	, ,			
		Durston et al., Retinoids and related signals in early development of the vertebrate central nervous system.				
		Curr. Top. Dev. Biol., 40: 111-175, 1998 (N/A)				
		Dyer et al., Indian hedgehog activities hematopoiesis and vasculogenesis and can respecify prospective neurectodermal cell fate in the mouse embryo.				
		Development, 128: 1717-1730, 2001				
V						

1				
Signature Considered	Examiner	/Daniel Gamett/ (05/08/2007)	Date	
	Signature		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation in not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

nd to a collection of information unless it contains a valid OMB control number

	te for form 1449/PTO		oc or 1000, no persons ar	Complete if Known		
3005010	te to: 10/11/11445/F10			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT B	SY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many she	ate an	accessory)	Art Unit	1636	
	(Ose as many sne	412 82 I	iecessary)	Examiner Name	to be assigned	
Sheet	7	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
/DG/		Ericson et al., Pax6 controls progenitor cell identity and neuronal fate in response to graded SHh signaling.					
		Cell, 90: 169-180, 1997					
		Ericson et al., Two critical periods of Sonic Hedgehog signaling required for the specification of motor neuron identity.					
		Cell, 87: 661-673, 1996					
		Falls, D.L., Neuregulins: functions, forms, and signaling strategies.					
		Exp. Cell Res., 284(1) 14-30, 2003					
		Frank-Kamenetsky et al., Small-molecule modulators of Hedgehog signaling: Identification and characterization of Smoothened agonists and antagonists.					
		J. Biol. 1(2): 10, 2002					
		Gage, F. H., Mammalian neural stem cells.					
$\overline{}$		Science, 287: 1433-1438, 2000					

Examiner /Daniel Gamett/ (05/08/2007)	Date Considered	
---	--------------------	--

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application, Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
b a collection of information unless it contains a valid OMB control number,

	te for form 1449/PTO			Complete If Known		
Juosinu	te for form 1445/1110			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many she	ata aa a		Art Unit	1636	
	(Use as many sne	ULD 83 I	iocossary,	Examiner Name	to be assigned	
Sheet	8	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS					
Examin Initials*			T²				
/DG/		Giles et al., Caught up in a Wnt storm: Wnt signaling in cancer.					
		Biochim. Biophys. Acta., 1653(1): 1-24, 2003					
		Goodwin and D'Amore, Wnt signaling in the vasculature.	•				
		Angiogenesis, 5(1-2): 1-9, 2002 (M/A)					
		Gratsch et al., Noggin and chordin have distinct activities in promoting lineage commitment of mouse embryonic stem (ES) cells.					
		Dev. Biol., 245: 83-94, 2002 (N/A)					
		Hatsell et al., Beta-catenin and Tcfs in mammary development and cancer.					
		J. Mammary Gland Biol. Neoplasia., 8: 145-158, 2003					
		Hollyday et al., An autoradiographic study of the formation of the lateral motor column in the chick embryo.					
	/	Brain Res., 132: 197-208, 1977					

Examiner	(D : 10 H/ (05/00/0007)	Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	0_

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Pagerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

	te for form 1449/PTO		cr or 1935, no persons ar	Complete if Known		
Substitu	10 10 10111 1443/-10			Application Number	10/789,308	
INF	ORMATION	N DIS	CLOSURE	Filing Date	02/26/04	
STA	ATEMENT B	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many sh	ante ne e	occessed	Art Unit	1636	
	(Ose as many sn	eets as n	ecessary)	Examiner Name	to be assigned	
Sheet	9	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
/DG/		Hsieh et al., Biochemical characterization of Wnt-frizzled interactions using a soluble, biologically active vertebrate Wnt protein.	
		Proc. Natl. Acad. Sci. USA, 96: 3546-3551, 1999	
		Imondi and Thomas, Neuroscience: the ups and downs of Wnt signaling.	
		Science, 302: 1903-1904, 2003	
		Lee et al., The specification of dorsal cell fates in the vertebrate central nervous system.	
		Annu. Rev. Neurosci., 22: 261-294, 1999	-
		Lemaire and Kessel, Gastrulation and homeobox genes in chick embryos.	
		Mech. Dev., 67: 3-16, 1997	
		Jessell et al., Neuronal specification in the spinal cord: inductive signals and transcriptional codes.	
$\sqrt{}$		Nat. Rev. Genet., 1: 20-29, 2000	

	· · · · · · · · · · · · · · · · · · ·	 	
Examiner	ID 1.1.0 (1.1.0.10.0.10.0.0.7)	Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not clation is in conformance with MPEP 609. Draw line through clation into the conformance and not considered. Include copy of this form with next communication to applicant:

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Tredemark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Subatitu	te for form 1449/PT	· O			Complete if Known
Substitu	ite for fortil 1443/FT	Ū		Application Number	10/789,308
INF	ORMATIC	N DIS	CLOSURE	Filing Date	02/26/04
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell
	##	-h4		Art Unit	1636
	(Use as many	sneets as n	iecessary)	Examiner Name	to be assigned
Sheet	10	of	25	Attorney Docket Number	5199-152

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²		
/DG/		Kalderon, D., Hedgehog signaling: Costal-2 bridges the transduction gap.			
		Curr. Biol., 14(2): R67-69, 2004			
dorsoventral traj		Kania et al., Coordinate roles for LIM homeobox genes in directing the dorsoventral trajectory of motor axons in the vertebrate limb.			
		Cell, 102: 161-173, 2000			
		Katoh, M., Genome-wide search of human genes implicated in Wnt signaling pathway using bioinformatics.			
		Genome Informatics, 13: 367-368, 2002 (N/A)			
		Kawasaki et al., Induction of midbrain dopaminergic neurons from ES cells by stromal cell-derived inducing activity.			
		Neuron, 28: 31-40, 2000			
		Kyba et al., HoxB4 confers definitive lymphoid-myeloid engraftment potential on embryonic stem cell and yolk sac hematopoietic progenitors.			
	,	Cell, 109: 29-37, 2002			

Examiner Signature	/Daniel Gamett/ (05/08/2007)	Date Considered

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
p a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTO		CC OF 1995, NO persons at	Complete if Known		
Joseph	18 10/10/11/1443/11/10			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many sh	ta		Art Unit	1636	
	(Ose as many sn	9913 43 F	iecessary)	Examiner Name	to be assigned	
Sheet	11 ·	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	
Initials* No.¹ the item (Initials* No.¹ the item (Initials* No.¹ the item (Initials* No.¹ the item (Initials* No.¹ Lauta, Volidagnost Cancer, Lee et al developi Nat. Neu		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Lauta, V. M., A review of the cytokine network in multiple myeloma: diagnostic, prognostic, and therapeutic implications.	
		Cancer, 97(10): 2440-2452, 2003	
		Lee et al., Transcriptional networks regulating neuronal identity in the developing spinal cord.	
		Nat. Neurosci., 4 Suppl. : 1183-1191, 2001	
		Lee et al., Efficient generation of midbrain and hindbrain neurons from mouse embryonic stem cells.	
		Nat. Biotechnol., 18: 675-679, 2000	
		Liu et al., Assigning the positional identity of spinal motor neurons. Rostrocaudal patterning of Hox-c expression by FGFs, Gdf11, and retinoids.	
		Neuron, 32: 997-1012, 2001	
		Lu et al., Common developmental requirement for Olig function indicates a motor neuron/oligodendrocyte connection.	
,	$\sqrt{}$	Cell, 109: 75-86, 2002	

Examiner	/Daniel Gamett/ (05/08/2007)	Date	
Signature		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substituta	for form 1449/PTO			Complete if Known		
, odpamole	10/10/11/1445/11/0			Application Number	10/789,308	
INFO	RMATION	DIS	SCLOSURE	Filing Date	02/26/04	
STA	TEMENT B	Y A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many she	-t		Art Unit	1636	
	(Ose as many sne	612 83 1	recessary)	Examiner Name	to be assigned	
Sheet	12	of	25	Attorney Docket Number	5199-152	

			NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*		Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
			Malbon et al., Wnt signaling and heterotrimeric G-proteins: strange bedfellows or a classic romance?	
			Biochem. Biophys. Res. Commun., 287(3): 589-593, 2001	
			Mallamaci et al., OTX2 homeoprotein in the developing central nervous system and migratory cells of the olfactory area.	
			Mech. Dev., 58: 165-178, 1996	
			Massague et al., TGFb signaling in growth control, cancer, and heritable disorders.	
			Cell, 103: 295-309, 2000	
			McMahon, A. P., More surprises in the hedgehog signaling pathway.	
			Cell, 100: 185-188, 2000	
			Mezey et al., Turning blood into brain: cells bearing neuronal antigens generated in vivo from bone marrow.	
,			Science, 290: 1779-1782, 2000	

Examiner	/Daniel Gamett/ (05/08/2007)	Date	
Signature	1 Daniel Galliela (00/00/2007)	Considered.	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw tine through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2008, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTO			Complete if Known		
Jubstitu	18 101 101111 1443/7 10			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	Was as many sha			Art Unit	1636	
	(Use as many she	912 92 I	lecessury)	Examiner Name	to be assigned	
Sheet	13	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS					
Examiner Cité No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
/DG/		Miyazono et al., Divergence and convergence of TGF-beta/BMP signaling.					
		J. Cell Physiol., 187(3): 265-276, 2001					
		Miyazono, K., Positive and negative regulation of TGF-beta signaling.					
		J. Cell Sci., 113(7): 1101-1109, 2000					
		Mizuguchi et al., Combinatorial roles of olig2 and neurogenin2 in the coordinated induction of pan-neuronal and subtype-specific properties of					
		motoneurons.					
		Neuron, 31: 757-771, 2001					
		Moon et al., The promise and perils of Wnt signaling through beta-catenin.					
		Science, 296(5573): 1644-1646, 2002					
\forall							

Examiner		Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not clation is in conformance with MFEP 095. Draw line through claticist in the described considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTO		ct or 1995, no persons ar	Complete if Known		
CODSINO	10 10/10/11/14-0// 10			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many she	ate ne c	occessary)	Art Unit	1636	
	(Ose as many sno	013 43 7	ocessary)	Examiner Name	to be assigned	
Sheet	14	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
/DG/		Muhr et al., Convergent inductive signals specify midbrain, hindbrain, and spinal cord identity in gastrula stage chick embryos.	
		Neuron, 23: 689-702, 1999	
		Munoz-Sanjuan et al., Neural induction, the default model and embryonic stem cells.	
		Nat. Rev. Neurosci., 3: 271-280, 2002	
	Nordstrom et al., Progressive induction of caudal neural character by graded Wnt signaling.		
		Nat. Neurosci., 5(6): 525-532, 2002	
		Novitch et al., Coordinate regulation of motor neuron subtype identity and pan-neuronal properties by the bHLH repressor Olig2.	
		Neuron, 31: 773-789, 2001	
		Nusse, R., Wnts and hedgehogs: lipid-modified proteins and similarities in signaling mechanisms at the cell surface.	
V		Development, 130(22): 5297-5305, 2003	

Examiner	/Daniel Gamett/ (05/08/2007)	Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is nonformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
D a collection of information unless it contains a valid OMB control number.

Substitu	te for form 1449/PTO			Complete if Known		
Guostino				Application Number	10/789,308	
INF	ORMATION	DIS	SCLOSURE	Filing Date	02/26/04	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many she	ote se s	200000001	Art Unit	1636	
	(Oso as many sme	W 13 03 1	iecessary)	Examiner Name	to be assigned	
Sheet	15	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
/DG/		O'Brien et al., Development and survival of thoracic motoneurons and hindlimb musculature following transplantation of the thoracic neural tube		
		to the lumbar region in the chick embryo: anatomical aspects.		
		J. Neurobiol., 21: 313-340, 1990		
		Ornitz and Itoh, Fibroblast growth factors.		
		Genome. Biol., 2(3): REVIEWS3005, 2001		
		Pandur et al., Increasingly complex: new players enter the Wnt signaling network.		
		Bioessays, 24(10): 881-884, 2002 (N/A)		
		Pattyn et al., Control of hindbrain motor neuron differentiation by the homeobox gene Phox2b.		
		Development, 127: 1349-1358, 2000		

Examiner	/Daniel Gamett/ (05/08/2007)	Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTO			Complete if Known		
Substitu	(e 10) 10/m 1445/F 10			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	#f== == ====			Art Unit	1636	
(Use as many sheets as necessary)				Examiner Name	to be assigned	
Sheet	16	of	25	Attorney Docket Number	5199-152	

			NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*		No. ¹ the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		Pevny et al., Generation of purified neural precursors from embryonic stem cells by lineage selection.			
			Curr. Biol., 8: 971-974, 1998		
			Pfaff et al., Requirement for LIM homeobox gene IsI1 in motor neuron generation reveals a motor neuron-dependent step in interneuron differentiation.		
			Cell, 84: 309-320, 1996		
	, <u></u>		Pierani et al., Control of interneuron fate in the developing spinal cord by the progenitor homeodomain protein Dbx1.		
			Neuron, 29(2): 367-384, 2001		
			Postigo, A.A., Opposing functions of ZEB proteins in the regulation of the TGF/BMP signaling pathway.		
			EMBO J., 22: 2443-2452, 2003		
			Povelones and Nusse, Wnt signaling sees spots.		
			Nat. Cell Biol., 4(11): E249-250, 2002		

Examiner /Daniel Gamett/ (05/08/2007)	Date Considered
---------------------------------------	--------------------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006, OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

	ite for form 1449/PTO			Complete if Known		
Substitu	ite for form 1449/F1O			Application Number	10/789,308	
INF	ORMATIO	N DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
				Art Unit	1636	
	(Use as many si	reets as n	ecessary)	Examiner Name	to be assigned	
Sheet	17	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	* No. ¹ the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-iss number(s), publisher, city and/or country where published.		T ²
/DG/		Raju et al., SANE, a novel lem domain protein, regulates bone morphogenetic protein signaling through interaction with smad1.	
		J. Biol. Chem., 278(1): 428-437, 2003	
		Rathjen et al., Directed differentiation of pluripotent cells to neural lineages: homogenous formation and differentiation of a neurectoderm population.	
		Development, 129: 2649-2661, 2002	
		Renoncourt et al., Neurons derived in vitro from ES cells express homeoproteins characteristic of motoneurons and interneurons.	
-3-		Mech. Dev., 79: 185-197, 1998	
		Reubinoff et al., Neural progenitors from human embryonic stem cells.	
		Nat. Biotechnol., 19: 1134-1140, 2001	
·		Ring and Cho, Specificity in transforming growth factor-b signaling pathways.	
\overline{V}		Am. J. Hum. Genet., 64: 691-697, 1999	

Examiner /Daniel Gamett/ (05/08/2007) Date Considered	
---	--

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
o a collection of information unless it contains a valid OMB control number.

	te for form 1449/PT		ce of 1999, no persons at	Complete if Known		
Jubstitu	(e 101 101111 1443/F)	U		Application Number	10/789,308	
INF	ORMATIC	N DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT	BYA	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(Use as many	ab into an a		Art Unit	1636	
	(Use as many	sneets as n		Examiner Name	to be assigned	
Sheet	18	of	25	Attorney Docket Number	5199-152	

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	T ²			
Initials* No.1		the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. Roelink et al., Floor plate and motor neuron induction by different concentrations of the amino-terminal cleavage product of sonic hedgehog				
		Cell, 81: 445-455, 1995				
		Sander et al., Ventral neural patterning by Nkx homeobox genes: Nkx6.1 controls somatic motor neuron and ventral interneuron fates.				
		Genes Dev., 14: 2134-2139, 2000				
		Schuldiner et al., Induced neuronal differentiation of human embryonic stem cells.				
		Brain Res., 913: 201-205, 2001				
		Sharma et al., Genetic and epigenetic mechanisms contribute to motor neuron pathfinding.				
		Nature, 406: 515-519, 2000				
$\neg \forall$						

Examiner Signature /Daniel Gamett/ (05/08/2007)	Date Considered
---	--------------------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
on a collection of information unless it contains a valid OMB control number.

Substitu	ute for form 1449/PT	n		Complete if Known		
Godann	3.5 101 101111 144011 1	•		Application Number	10/789,308	
INF	ORMATIC	N DIS	CLOSURE	Filing Date	02/26/04	
STA	ATEMENT	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	// los sa many	abaata aa a		Art Unit	1636	
	(Use as many	2116612 82 1	recessary)	Examiner Name	to be assigned	
Sheet	19	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹						
r /DG/		Sharma et al., LIM homeodomain factors Lhx3 and Lhx4 assign subtype identities for motor neurons.					
		Cell, 95: 817-828, 1998					
		Shibamoto et al., Cytoskeletal reorganization by soluble Wnt-3a protein signaling.					
		Genes Cells, 3: 659-670, 1998					
		Streit et al., Initiation of neural induction by FGF signaling before gastrulation.					
		Nature, 406: 74-78, 2000					
		Tanabe et al., Specification of motor neuron identity by the MNR2 homeodomain protein.					
		Cell, 95: 67-80, 1998					
		Temple, S., The development of neural stem cells.					
		Nature, 414:112-117, 2001					

Examiner	/Daniel Gamett/ (05/08/2007)	•	Date	
Signature	,		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	te for form 1449/PT		or or 1000, no persons as	Complete if Known			
3005010	RE 10/10/11/1445/F1	0		Application Number	10/789,308		
INF	ORMATIO	N DIS	CLOSURE	Filing Date	02/26/04		
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell		
	(1)00 00			Art Unit	1636		
	(Use as many	sneets as r	ecessary)	Examiner Name	to be assigned	•	
Sheet	20	of	25	Attorney Docket Number	5199-152		

Examiner -	Cite No.1	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue	T ²
		number(s), publisher, city and/or country where published.	· ·
/DG/		Terada et al., Bone marrow cells adopt the phenotype of other cells by spontaneous cell fusion.	
		Nature, 416: 542-545, 2002	
		Thaler et al., Active suppression of interneuron programs within developing motor neurons revealed by analysis of homeodomain factor HB9.	
·		Neuron, 23: 675-687, 1999	
		Tropepe et al., Direct neural fate specification from embryonic stem cells: a primitive mammalian neural stem cell stage acquired through a default	
		mechanism.	
		Neuron, 30: 65-78, 2001	
		Tsuchida et al., Topographic organization of embryonic motor neurons defined by expression of LIM homeobox genes.	
		Cell, 79: 957-970, 1994	

Examiner	(Daniel Comett (05/00/0007)	Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation Is attached.

This collection of information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE of a collection of information unless it contains a valid OMB control number.

	ite for form 1449/PT		CC 1933, NO persons as	Complete if Known		
Substitut	1443/F1		•	Application Number	10/789,308	
INF	ORMATIC	N DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT	BYA	PPLICANT	First Named Inventor	Thomas M. Jessell	
	##			Art Unit	1636	
	(Use as many	sneets as r	lecessary)	Examiner Name	to be assigned	
Sheet	21	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	,
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposlum, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/DG/		Uchida et al., Direct isolation of human central nervous system stem cells.	
		Proc. Natl. Acad. Sci. USA, 97: 14720-14725, 2000	
		Vallstedt et al., Different levels of repressor activity assign redundant and specific roles to NKx6 genes in motor neuron and interneuron specification.	
		Neuron, 31: 743-755, 2001	
		Van Es et al., You Wnt some, you lose some: oncogenes in the Wnt signaling pathway.	
		Curr. Opin. Genet. Dev., 13(1): 28-33, 2003	
		Van Gijn et al., The Wnt-frizzled cascade in cardiovascular disease.	
		Cardiovasc. Res., 1: 16-24, 2002	
·		Veeman et al., A second canon: functions and mechanisms of beta-catenin-independent Wnt signaling.	
	r	Dev. Cell 5(3): 367-377, 2003	

Examiner	/Daniel Gamett/ (05/08/2007)	Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant,

considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0551-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTC		ct of 1333, no persons at	Complete if Known		
Substitu	te tor tours 1445/FTC			Application Number	10/789,308	
INF	ORMATIO	N DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	***			Art Unit	1636	
(Use as many sheets as necessary)				Examiner Name	to be assigned	
Sheet	22	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/DG/		Waxman and Bennett, Relative conduction velocities of small myelinated and nonmyelinated fibres in the central nervous system.	
		Nature New Biol., 238:217, 1972	
		Weston et al., Revisiting the role of retinoid signaling in skeletal development.	
		Birth Defects Res. Part C Embryo Today, 69(2): 156-173, 2003	
		Wetmore, C., Sonic hedgehog in normal and neoplastic proliferation: insight gained from human tumors and animal models.	
		Curr. Opin. Genet. Dev., 13(1): 34-42, 2003	
		Wilson et al., Neural induction: toward a unifying mechanism.	
		Nat. Neurosci., 4th Suppl.: 1161-1168, 2001	
		Wilson et al., An early requirement for FGF signaling in the acquisition of neural cell fate in the chick embryo.	
$\overline{\downarrow}$		Curr. Biol., 10: 421- 429, 2000	

	The state of the s		
Examiner		Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	. 1
Jugitature	/Dunier Junier (00/00/2001)		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPCP due. Draw into third with the considered considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of Information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
b a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTO		A OF 1995, NO persons at	Complete if Known		
Substitu	IN IOI IOINI 1445/F 10			Application Number	10/789,308	
INF	ORMATION	N DIS	CLOSURE	Filing Date	02/26/04	
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(the see many of			Art Unit	1636	
	(Use as many sh	ieets as n	ecessary)	Examiner Name	to be assigned	
Sheet	23	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/DG/	D.	Wilson et al., The status of Wnt signaling regulates neural and epiderm fates in the chick embryo.	
		Nature, 411: 325-330, 2001	
		Wodarz and Nusse, Mechanisms of Wnt signaling in development.	
		Annu. Rev. Cell Dev. Biol., 14: 59-88, 1998	
		Wood et al., Comparative expression of the mouse Sox1, Sox2 and Sox3 genes from pre-gastrulation to early somite stages.	
		Mech. Dev., 86: 197-201, 1999	
		Wrana, J., Regulation of Smad activity.	
		Cell, 100: 189-192, 2000	
		Xian et al., Peering into early neurogenesis with embryonic stem cells.	
T		Trends Neurosci., 24: 685-686, 2001	

Examiner /Daniel Gamett/ (05/08/2007)	Date	l
Examiner /Daniel Gamett/ (05/08/2007)	Considered	1

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation to the considered considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of Information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it contains a valid OMB control number.

Subatitu	te for form 1449/PTO			Complete if Known		
5005000	18 10F 10HH 1445/F FO			Application Number	10/789,308	
INF	ORMATION	DIS	CLOSURE	Filing Date	02/26/04	
STA	ATEMENT E	BY A	PPLICANT	First Named Inventor	Thomas M. Jessell	
	(11			Art Unit	1636	
	(Use as many she	iets as r	iecessary)	Examiner Name	to be assigned	
Sheet	24	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	iner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title o		T²
/DG/		Yamada et al., Control of cell pattern in the developing nervous system: polarizing activity of the floor plate and notochord.	
		Cell, 64: 635-647, 1991	
		Yamaguchi et al., XIAP, a cellular member of the inhibitor of apoptosis protein family, links the receptors to TAB1-TAK1 in the BMP signaling pathway.	
		EMBO J., 18(1): 179-187, 1999	
		Ying et al., Changing potency by spontaneous fusion.	
		Nature, 416: 545-548, 2002	
		Yu et al., Platelet-derived growth factor signaling and human cancer.	
		J. Biochem. Mol. Biol., 36(1): 49-59, 2003	
		Zhang et al., In vitro differentiation of transplantable neural precursors from human embryonic stem cells.	
		Nat. Biotechnol., 19: 1129-1133, 2001	

Examiner		Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

EXAMINER: Include copy of this form with next communication to applicant:

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO				re required to respond to a collection of information unless it contains a valid OMB control number. Complete If Known		
Outsine	10 10: 10:11:11			Application Number	10/789,308	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	02/26/04	
				First Named Inventor	Thomas M. Jessell	
	///aa aaa			Art Unit	1636	
(Use as many sheets as necessary)			iecessary)	Examiner Name	to be assigned	
Sheet	25	of	25	Attorney Docket Number	5199-152	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*			
/DG/		Zhou et al., The bHLH transcription factors OLIG2 and OLIG1 couple neuronal and glial subtype specification.	
/DG/		Cell, 109: 61-73, 2002	
		·	

Examiner	/Daniel Gamett/ (05/08/2007)	Date	
Signature	/Daniel Gamett/ (05/08/2007)	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: